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29 OCT 1998

"Patent"

Legal Staff  
International Division

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Application of: § Case Docket No.: 93A007  
Deckman, et al. § Int'l App. No.: PCT/EP94/01301  
Serial No.: 08/545,707 § Group Art Unit: (unassigned)  
Int'l App. Filed: April 25, 1994 § Examiner: (unassigned)  
For: Molecular Sieve Layers and §  
Processes for Their Manufacture §

Honorable Commissioner of Patents and Trademarks  
Washington, D. C. 20231

**DECLARATION OF FACTS IN SUPPORT OF FILING UNDER 37C.F.R. 1.47(B)**

Applicant's attorney, Edward F. Sherer, hereby declares that he is the attorney for the above-identified application and the following are the facts and circumstances related to the effort made to obtain signatures from the three (3) inventors (Messrs. Burggraaf, Vroon, and Keizer) who have not signed and returned to the Applicant's attorney, an executed Declaration for this application.

- (1) This application is 100 percent owned by Exxon Chemical Patents Inc.
- (2) Eleven (11) inventors are listed for the application. Eight (8) are employed by Exxon and three (3) are not employed by Exxon. All Exxon employees have signed a Declaration. The three non-Exxon inventors (Messrs. Burggraaf, Vroon, and Keizer) have not signed a Declaration and returned it to the Applicant's attorney for filing at the United States Patent and Trademark Office.

- (3) On March 10, 1998, an Office Action (Notice to File Missing Parts) dated March 6, 1998 was received by the Law Department. The Action required the filing of a signed Declaration.
- (4) On April 7, 1998, a Declaration for signing were mailed to Messrs. Burggraaf, Vroon, and Keizer at their work location. These inventors were located in The Netherlands. Attached hereto (Attachment A) is a copy of the April 7, 1998 letter.
- (5) On or about the end of July, Ms. Cis Twilt, secretary to Messrs. Burggraaf, Vroon, and Keizer was telephoned concerning the whereabouts of the signed Declaration. Ms. Twilt informed the Law Department that: (1) Both Burggraaf and Vroon had signed the Declaration; and (2) She had forwarded it to Keizer for signature.
- (6) After this conversation, Ms. Cis Twilt forwarded to the Law Department a copy of the Declaration signed by Burggraaf (signed on April 10, 1998) and Vroon (signed on April 15, 1998) and notified the Law Department that Keizer had signed the Declaration and mailed it back to the Law Department around the end of April/beginning of May. Attached hereto (Attachment B) is a copy of this document.
- (7) The signed Declaration was not received by the Law Department. The company mail room for the Law Department searched for mail with this document. The search confirmed that mail containing the document had not been received.
- (8) On August 24, 1998 letter, New Declarations were sent to all eleven (11) inventors. Attached hereto (Attachment C) is a copy of this letter.
- (9) By September 4, 1998, all of the New Declarations had been returned to the Legal Department except for the ones for Burggraaf, Vroon, Keizer.

- (10) On September 4, 1998, a message was sent by fax to Ms. Cis Twilt asking for the New Declarations of Burggraaf, Vroon, Keizer. On September 8, 1998, Ms. Cis Twilt replied that Keizer would not be able to sign the Declaration until next week.
- (11) The last address for Messrs. Burggraaf, Vroon, and Keizer is the following:

University of Twente  
Hallenweg  
7500 AE Enschede  
The Netherlands

- (12) This action is required to prevent the application from going abandoned with loss of priority to the parent PCT application.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further, that these statements are made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001, Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Edward F. Sherer  
Edward F. Sherer

Date: September 8, 1998



# RAM Fee History Query

Revenue Accounting and Management

Name/Number: 08545707

Total Records Found: 8

Start Date: Any Date

End Date: Any Date

Accounting Date	Sequence Num.	Tran Type	Fee Code	Fee Amount	Mailroom Date	Payment Method
12/07/1995	01913701	<u>1</u>	<u>970</u>	\$1,010.00	12/06/1995	DA 051712
12/07/1995	01913702	<u>1</u>	<u>964</u>	\$390.00	12/06/1995	DA 051712
12/07/1995	01913703	<u>1</u>	<u>966</u>	\$132.00	12/06/1995	DA 051712
12/07/1995	01914001	<u>1</u>	<u>154</u>	\$130.00	12/06/1995	DA 051712
04/02/1998	00000121	<u>1</u>	<u>581</u>	\$40.00	03/23/1998	DA 051712
09/17/1998	00000010	<u>1</u>	<u>105</u>	\$130.00	09/14/1998	DA 051712
09/17/1998	00000011	<u>1</u>	<u>128</u>	\$2,060.00	09/14/1998	DA 051712
09/17/1998	00000012	<u>1</u>	<u>122</u>	\$130.00	09/14/1998	DA 051712

EXXON CHEMICAL COMPANY

ATTACHMENT A

SCIT Law Technology

EXXON  
CHEMICAL

COPY

April 7, 1998

A. J. Jacobson-U of H  
H. W. Deckman-ER&E  
J. A. McHenry-ER&E  
F. W. Lai-ER&E

E. W. Corcoran-ER&E  
J. P. Verdijin-MCTC  
L. R. Czarnetzki-MCTC  
A. J. Bons-MCTC

W. J. Mortier-MCTC  
A. J. Burggraaf-The Netherlands  
Z. A. E. P. Vroon-The Netherlands  
K. Keizer-The Netherlands

Re: Declaration for 93A007  
USSN: 08/545,707  
Entitled: "Molecular Sieve Layers and Process for Their Manufacture"

Dear Mr. Burggraaf:

Please sign and date the enclosed Declaration. After you have executed the document, please route the document along with the addressed envelopes to Z. A. E. P. Vroon.

Dear Mr. Vroon:

Please sign and date the enclosed Declaration. After you have executed the document, please route the document along with the addressed envelopes to K. Keizer.

Dear Mr. Keizer:

Please sign and date the enclosed Declaration. After you have executed the document, please return to me in the enclosed envelope.

If you have any questions, please contact me by phone (281) 834-1883 or fax (281) 834-2911.

Thanks in advance for your assistance in this matter.

Very truly yours,

*Jennifer Sue Lewis*  
Jennifer Sue Lewis

Enclosures

4500 Bayway Drive, Baytown, Texas 77520-9728  
P.O. Box 2149, Baytown, TX 77522-2149  
Tel: (281) 834-2136 Fax: (281) 834-2911

A Division of Exxon Corporation

98EFS031.DOC/JSL



Attachment B

Please Docket No.

93A007

**POWER OF ATTORNEY:** As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith.

NAMES	REGISTRATION NUMBERS
John F. Hunt	29,394
Linda K. Russell	34,918
Edward F. Sherer	29,588
James A. Zborav	35,420

SEND CORRESPONDENCE TO:	DIRECT TELEPHONE CALLS TO: (Name and Telephone Number)
Exxon Chemical Company Law Technology P.O. Box 2149 Baytown, Texas 77522-2149	Edward F. Sherer (281) 834-5933 Facsimile No. (281) 834-2911

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

FULL NAME OF INVENTOR	LAST NAME Deckman	FIRST NAME Harry	MIDDLE NAME William	
RESIDENCE & CITIZENSHIP	CITY Clinton	STATE OR FOREIGN COUNTRY New Jersey	COUNTRY OF CITIZENSHIP USA	
POST OFFICE ADDRESS	POST OFFICE ADDRESS 2 Woods Edge Court	CITY Clinton	STATE OR COUNTRY New Jersey	ZIP CODE 08809

Inventor's signature  Date 3/27/11

FULL NAME OF INVENTOR	LAST NAME Jacobson	FIRST NAME Allan	MIDDLE NAME Joseph	
RESIDENCE & CITIZENSHIP	CITY Houston	STATE OR FOREIGN COUNTRY Texas	COUNTRY OF CITIZENSHIP USA	
POST OFFICE ADDRESS	POST OFFICE ADDRESS 3027 Lafayette Street	CITY Houston	STATE OR COUNTRY Texas	ZIP CODE 77005

Inventor's signature Allen J. Fletcher Date 3/18/18

FULL NAME OF INVENTOR	LAST NAME McHenry	FIRST NAME James	MIDDLE NAME Alexander	
RESIDENCE & CITIZENSHIP	CITY Washington	STATE OR FOREIGN COUNTRY New Jersey	COUNTRY OF CITIZENSHIP USA	
POST OFFICE ADDRESS	POST OFFICE ADDRESS 4 Partridge Run	CITY Washington	STATE OR COUNTRY New Jersey	ZIP CODE 07882

Inventor's signature \_\_\_\_\_ Date \_\_\_\_\_

FULL NAME OF INVENTOR	LAST NAME Keizer	FIRST NAME Klaas	MIDDLE NAME	
RESIDENCE & CITIZENSHIP	CITY Hoogeveen	STATE OR FOREIGN COUNTRY The Netherlands	COUNTRY OF CITIZENSHIP The Netherlands	
POST OFFICE ADDRESS	POST OFFICE ADDRESS Saturnus 80, 7904 GC	CITY Hoogeveen	STATE OR COUNTRY The Netherlands	ZIP CODE

Inventor's signature \_\_\_\_\_ Date \_\_\_\_\_

FULL NAME OF INVENTOR	LAST NAME Vroon	FIRST NAME Zeger	MIDDLE NAME Alexander Eduard Pieter	
RESIDENCE & CITIZENSHIP	CITY 5627 VG Eindhoven	STATE OR FOREIGN COUNTRY The Netherlands	COUNTRY OF CITIZENSHIP The Netherlands	
POST OFFICE ADDRESS	POST OFFICE ADDRESS Mainstraat 56	CITY 5627 VG Eindhoven	STATE OR COUNTRY The Netherlands	ZIP CODE

Inventor's signature \_\_\_\_\_ Date 2/15/93 \_\_\_\_\_

FULL NAME OF INVENTOR	LAST NAME Czarnetzki	FIRST NAME Lothar	MIDDLE NAME Ruediger	
RESIDENCE & CITIZENSHIP	CITY 3010-Leuven	STATE OR FOREIGN COUNTRY Belgium	COUNTRY OF CITIZENSHIP Germany	
POST OFFICE ADDRESS	POST OFFICE ADDRESS Priester Daensstraat 29/4	CITY 3010-Leuven	STATE OR COUNTRY Belgium	ZIP CODE

Inventor's signature \_\_\_\_\_ Date 4/1 \_\_\_\_\_

FULL NAME OF INVENTOR	LAST NAME Lai	FIRST NAME Frank	MIDDLE NAME Wenyih	
RESIDENCE & CITIZENSHIP	CITY Bridgewater	STATE OR FOREIGN COUNTRY New Jersey	COUNTRY OF CITIZENSHIP USA	
POST OFFICE ADDRESS	POST OFFICE ADDRESS 656 Bellerive Court	CITY Bridgewater	STATE OR COUNTRY New Jersey	ZIP CODE 08807

Inventor's signature Dwight Lai Date 3/23/93 \_\_\_\_\_

FULL NAME OF INVENTOR	LAST NAME Bons	FIRST NAME Antonie	MIDDLE NAME Jan	
RESIDENCE & CITIZENSHIP	CITY 3010 Kessel-Lo	STATE OR FOREIGN COUNTRY Belgium	COUNTRY OF CITIZENSHIP The Netherlands	
POST OFFICE ADDRESS	POST OFFICE ADDRESS Tiensesteenweg 259	CITY 3010 Kessel-Lo	STATE OR COUNTRY Belgium	ZIP CODE

Inventor's signature \_\_\_\_\_ Date \_\_\_\_\_

FULL NAME OF INVENTOR	LAST NAME Burggraaf	FIRST NAME Anthonie	MIDDLE NAME Jan
RESIDENCE & CITIZENSHIP	CITY 7548 AM Enschede	STATE OR FOREIGN COUNTRY The Netherlands	COUNTRY OF CITIZENSHIP The Netherlands
POST OFFICE ADDRESS	POST OFFICE ADDRESS Bastlingalaan 15	CITY 7548 AM Enschede	STATE OR COUNTRY The Netherlands

Inventor's signature

Date 10/04/98

FULL NAME OF INVENTOR	LAST NAME Verdijin	FIRST NAME Johannes	MIDDLE NAME Petrus
RESIDENCE & CITIZENSHIP	CITY B-3061 Leefdaal	STATE OR FOREIGN COUNTRY Belgium	COUNTRY OF CITIZENSHIP The Netherlands
POST OFFICE ADDRESS	POST OFFICE ADDRESS Vlieguit 28	CITY B-3061 Leefdaal	STATE OR COUNTRY Belgium

Inventor's signature

Date \_\_\_\_\_

FULL NAME OF INVENTOR	LAST NAME Corcoran	FIRST NAME Edward	MIDDLE NAME William, Jr.
RESIDENCE & CITIZENSHIP	CITY Easton	STATE OR FOREIGN COUNTRY Pennsylvania	COUNTRY OF CITIZENSHIP USA
POST OFFICE ADDRESS	POST OFFICE ADDRESS 2149 Stocker Mill Road	CITY Easton	STATE OR COUNTRY Pennsylvania

Inventor's signature

Date 3/23/98

FULL NAME OF INVENTOR	LAST NAME Mortier	FIRST NAME Wilfred	MIDDLE NAME Jozef
RESIDENCE & CITIZENSHIP	CITY B-3010 Kessel-Lo	STATE OR FOREIGN COUNTRY Belgium	COUNTRY OF CITIZENSHIP The Netherlands
POST OFFICE ADDRESS	POST OFFICE ADDRESS Dieste Steenweg 483	CITY B-3010 Kessel-Lo	STATE OR COUNTRY Belgium

Inventor's signature

Date \_\_\_\_\_

EXXON CHEMICAL COMPANY

URGENT

EXXON  
CHEMICAL

ATTACHMENT C

BCIT Law Technology

August 24, 1998

Ms. Cis Twilt  
University of Twente  
Hallenweg 4  
7500 AE Enschede  
The Netherlands

Re: Declaration for 93A007  
USSN: 08/545,707  
Entitled: "Molecular Sieve Layers and Process for Their Manufacture"

Ms. Twilt:

Per our numerous telephone conversations, enclosed is a Declaration for Mr. Burggraaf, Mr. Vroon, and Mr. Keizer's signature (I understand Mr. Keizer will be in your office around September 2, 1998). After the Declaration has been executed, please fax it to me at (281) 834-2911 and then return the original to me in the enclosed envelope as soon as possible.  
*Our deadline on filing this Declaration is September 12, 1998.*

If you have any questions, please contact at (281) 834-1883.

Thanks in advance for your assistance in this matter.

Very truly yours,

Jennifer Sue Lewis

Jennifer Sue Lewis

Enclosures



PCT

WORLD INTELLECTUAL PROPERTY ORGANIZATION  
International Bureau



INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification <sup>5</sup> : <b>B01J 20/18, B01D 71/02, C01B 33/20</b>		A1	(11) International Publication Number: <b>WO 94/25151</b>
			(43) International Publication Date: 10 November 1994 (10.11.94)
(21) International Application Number: <b>PCT/EP94/01301</b>		[US/US]; 0-66 27th Street, Fair Lawn, NJ 07410 (US). MICHIELS, Antonie, Jan [NL/BE]; Tiensesteenweg 259, B-3010 Kessel-Lo (BE). MECHEMER, Wilfried, Jozef [NL/BE]; Diestse Steenweg 483, B-3010 Kessel-Lo (BE). VELDHOVEN, Johannes, Petrus [NL/BE]; Vlieguit 28, B-3061 Leefdaal (BE). VELDKRAN, Edward, William, Jr. [US/US]; 2149 Stocker Mill Road, Easton, PA 18042 (US).	
(22) International Filing Date: 25 April 1994 (25.04.94)		(23) Priority Data: 93303187.4 23 April 1993 (23.04.93) EP (34) Countries for which the regional or international application was filed: GB et al.	
(71) Applicant (for all designated States except US): EXXON CHEMICAL PATENTS INC. [US/US]; 1900 East Linden Avenue, Linden, NJ 07036 (US).		(74) Agents: BAWDEN, Peter, Charles et al.; Exxon Chemical Limited, Exxon Chemical Technology Centre, P.O. Box 1, Abingdon, Oxfordshire OX13 6BB (GB).	
(72) Inventors; and (75) Inventors/Applicants (for US only): <del>DEKKER</del> , Harry, William [US/US]; 4 Woods Edge Court, Clinton, NJ 08801 (US). <del>DEKKER</del> , Allan, Joseph [GB/US]; 3027 Lafayette Street, Houston, TX 77005 (US). <del>MCHENRY</del> , James, Alexander [US/US]; 4 Partridge Run, Washington, NJ 08801 (US). <del>REYER</del> , Klaas [NL/NL]; Benninkburg 19, NL-7511 MB Enschede (NL). <del>BURGGRAAF</del> , Antonie, Jan [NL/NL]; Bastinglaan 15, NL-7548 AM Boekelo (NL). <del>VOORON</del> , Zeger, Alexander, Eduard, Pieter [NL/NL]; Klimopstraat 14, NL-7552 SN Hengelo (NL). <del>KRAGENBUCK</del> , Lothar, Ruediger [DE/NL]; Spanjaardslaan 19, NL-2352 AK Leiderdorp (NL). <del>FRANK</del> , Frank, Wenyih		(81) Designated States: AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, ES, FI, GB, HU, JP, KP, KR, KZ, LK, LU, MG, MN, MW, NL, NO, NZ, PL, PT, RO, RU, SD, SE, SK, UA, US, VN, European patent (AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE).	
<p>Published With international search report. Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.</p>			

(54) Title: MOLECULAR SIEVE LAYERS AND PROCESSES FOR THEIR MANUFACTURE

(57) Abstract

Layers comprising a molecular sieve layer on a porous or non-porous support, having uniform properties and allowing high flux are prepared from colloidal solutions of zeolite or other molecular sieve precursors (particle size less than 100 nm), by deposition, e.g., by spin or dipcoating, or by *in situ* crystallization.